

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000647

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H01C 7/12, H02H 1/04, H01H 9/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H01C, H01H, H02H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI DATA, EPO-INTERNAL, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0683496 A1 (ASEA BROWN BOVERI AB), 22 November 1995 (22.11.1995), page 2, line 20 - line 48; page 3, line 10 - line 44 --	1-8
Y	US 5113306 A (EDWARD F. VEVERKA ET AL), 12 May 1992 (12.05.1992), column 3, line 55 - column 8, line 15 --	1-8
A	US 5517382 A (PETER LEUPP ET AL), 14 May 1996 (14.05.1996), column 1, line 33 - column 2, line 56 --	1-8

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

24 June 2004

Date of mailing of the international search report

13 -07- 2004

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4989115 A (MICHEL BOURDAGES ET AL), 29 January 1991 (29.01.1991), column 3, line 23 - column 5, line 16 --	1-8
A	PATENT ABSTRACTS OF JAPAN Vol. 2002 no. 05 03 May 2002 (2002-05-03) & JP 2002015904 A (MITSUBISHI ELECTRIC CORP) 18 January 2002 (2002-01-18) abstract and figures -- -----	1-8

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Information on patent family members

30/04/2004

International application No.

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EP	0683496	A1	22/11/1995	AU	690229	B	23/04/1998
				AU	1796695	A	23/11/1995
				BR	9502034	A	16/01/1996
				CA	2149200	A,C	14/11/1995
				CN	1115507	A	24/01/1996
				JP	3479157	B	15/12/2003
				JP	8045709	A	16/02/1996
				SE	516123	C	19/11/2001
				SE	9401655	A	14/11/1995
				US	5608597	A	04/03/1997

US	5113306	A	12/05/1992	AU	633885	B	11/02/1993
				AU	5148190	A	25/10/1990
				BR	9001368	A	02/04/1991
				CA	2012253	A,C	18/10/1990
				DE	393854	T	13/06/1991
				DE	69023534	D,T	30/05/1996
				EP	0393854	A,B	24/10/1990
				SE	0393854	T3	
				EP	0595376	A	04/05/1994
				JP	2294223	A	05/12/1990
				MX	166138	B	21/12/1992
				US	4930039	A	29/05/1990
				CA	2030740	A	15/05/1991
				WO	9107154	A	30/05/1991

US	5517382	A	14/05/1996	AT	147883	T	15/02/1997
				AU	672860	B	17/10/1996
				AU	5642394	A	08/09/1994
				CA	2116836	A,C	05/09/1994
				CZ	284669	B	13/01/1999
				CZ	9400484	A	16/11/1994
				DE	4306691	A	03/11/1994
				DE	59401564	D	00/00/0000
				EP	0614198	A,B	07/09/1994
				SE	0614198	T3	
				HR	940146	A,B	31/10/1996
				HU	70232	A	28/09/1995
				HU	218050	B	28/05/2000
				HU	9400549	D	00/00/0000
				JP	6325852	A	25/11/1994
				PL	172988	B	30/01/1998
				PL	302386	A	05/09/1994
				RU	2126576	C	20/02/1999
				ZA	9401311	A	30/09/1994

US	4989115	A	29/01/1991	AT	107431	T	15/07/1994
				CA	1314949	A,C	23/03/1993
				DE	69009898	D,T	26/01/1995
				EP	0413618	A,B	20/02/1991
				JP	3219580	A	26/09/1991